Application/Control No. Applicant(s)/Patent under Index of Claims Reexamination 10/730,641 FARRAR, PAUL A. Examiner Art Unit 2815 Jesse A. Fenty (Through numeral)
Cancelled Rejected Non-Elected **Appeal** N Α ÷ 0 Allowed Restricted Interference Objected

| CI   | aim      | Date        |          |                |              |          |                 | Claim  |                 |                 | Date     |          |          |                    |          |          |          |          |          | Cla      | Date  |          |          |          |            |          |          |          |          |                 |          |          |  |           |
|--|----------|-------------|----------|----------------|--------------|----------|-----------------|--|-----------------|-----------------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|---|----------|----------|----------|------------|----------|----------|----------|----------|-----------------|----------|----------|--|-----------|
| _  | <u></u>  | 2           |          |                |              |          |                 |  |                 |                 |          | _        | <u>~</u> |                    |          |          |          |          |          |          |   |          |          |          | <u>=</u>   |          |          |          |          |                 |          |          | T  |           |
| Final  | Original | 1/31/05     |          |                | - 1          |          |                 |  |                 |                 |          | Final    | Original |                    |          | - }      |          |          |          |          | ı   |          |          | Final    | Original   |          | ı        |          |          |                 |          |          |  |           |
| ĬĒ.  | ō        | ₽           |          |                |              |          |                 |  |                 |                 |          | ij.      | Ö        |                    |          | - 1      |          |          |          | - [      | Ì   |          | 1        | ᄪ        | Š          |          |          |          |          |                 |          |          |  |           |
|  |          | ١,          | -        | -              | -            |          |                 | <u> </u>   | _               | Щ               | Ļ        |          |          | Ш                  | $\dashv$ | _        | _        | _        | _        | _        | _   | 4        | $\vdash$ |          |            | _        | _        | _        |          |                 | _        | _        | _[   |           |
|  | 1        | 1           |          | $\dashv$       | -            |          | <u> </u>        | _  |                 | $\vdash$        | -        |          | 51       |                    | $\dashv$ | -        | _        |          | $\dashv$ | -        | 4   | 4        | <u> </u> | _        | 101        | _        | 4        |          |          |                 |          | _        | _  | _         |
|  | 3        | 1           | +        | $\dashv$       | -            |          |                 | ⊢  |                 |                 | -        |          | 52       | $\vdash$           | -        | -        |          |          | $\dashv$ |          | +   | 4        | ⊢        |          | 102        |          | 4        | $\dashv$ |          |                 |          |          | 4  | 괵         |
|  | 4        | 1           | $\vdash$ | +              | $\dashv$     |          |                 |  |                 | -               | -        |          | 53<br>54 | Н                  | $\dashv$ | -        |          |          | $\dashv$ | -        | -   | -        | ⊢        | -        | 103        | $\dashv$ | -        |          |          |                 |          |          | $\dashv$   | 괵         |
|  | 5        | 1           | -        | -              | $\dashv$     | $\dashv$ | _               | ├  | $\vdash$        |                 | - }-     |          | 55       | $\vdash$           | -        | $\dashv$ | $\dashv$ | $\dashv$ | -        | -        | -   | ┨        | -        | -        | 105        | $\dashv$ | $\dashv$ | -        |          |                 |          |          | +  | -         |
|  | 6        | 1           | -        | +              | $\dashv$     | $\dashv$ | _               | ┝  | -               | Н               | }        |          | 56       | -                  | $\dashv$ | $\dashv$ |          | $\dashv$ |          | -        | +   | ┨        | -        | _        | 106        | $\dashv$ | $\dashv$ | $\dashv$ |          |                 |          |          | $\dashv$   | $\dashv$  |
|  | 7        | È           |          | _              | $\dashv$     | $\dashv$ |                 | <del>                                     </del> | _               | $\dashv$        | <b>-</b> |          | 57       | Н                  | $\dashv$ | +        | $\dashv$ | ㅡ        | $\dashv$ | +        | +   | ┨        | ⊢        |          | 107        | -+       |          | ᅱ        |          | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$  |
|  | 8        | 1           |          | ┪              |              | $\neg$   |                 |  |                 | -               | <u> </u> |          | 58       | Н                  |          | _        | $\dashv$ | T        | $\dashv$ |          |   | $\dashv$ | H        |          | 108        | $\dashv$ | $\dashv$ | $\neg$   | _        |                 | -        | $\neg$   | +  | ᅱ         |
|  | 9        | 1           |          | _              | 1            | $\neg$   |                 |  |                 | $\dashv$        | İ        |          | 59       |                    |          | $\dashv$ | $\dashv$ | $\neg$   | ヿ        | _        | $\dashv$  | ┨        |          |          | 109        | _        |          | $\neg$   |          | $\exists$       | 一        | -        | $\dashv$   | ᅥ         |
|  | 10       | 1           |          | 寸              | 寸            | $\neg$   |                 |  |                 | П               | Ī        |          | 60       |                    |          | 寸        | _        | ᅵ        | _        |          | $\top$  | ┪        | F        |          | 110        | $\dashv$ | 寸        |          |          | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$   | ヿ         |
|  | 11       | 1           |          |                |              |          |                 |  |                 |                 | Γ        |          | 61       |                    |          |          | $\neg$   | T        | 一        | 7        | T   | ٦        |          | $\neg$   | 111        | $\neg$   | _        |          |          |                 | 一        |          | $\dashv$   | $\dashv$  |
|  | 12       | ٧           |          |                |              |          |                 |  |                 |                 | Γ        |          | 62       |                    |          |          | ╗        |          |          |          |   |          |          |          | 112        |          |          |          |          |                 | ヿ        | $\neg$   | T  | ヿ         |
|  | 13       | 1           |          | $\bot$         | I            |          |                 |  |                 |                 |          |          | 63       |                    |          |          | $\Box$   |          | J        | $\Box$   | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |          |          |          | 113        |          | ╗        |          |          |                 |          |          |  | ╗         |
|  | 14       | 1           |          | $\perp$        |              |          |                 | _  |                 | Ш               | Ĺ        |          | 64       | Ш                  |          | $\Box$   |          | $\Box$   | $\Box$   | $\Box$   | $\Box \Box$                                       |          |          |          | 114        |          |          |          |          |                 |          |          | $oldsymbol{ol}}}}}}}}}}}}}}$ |           |
| <u> </u>   | 15       | Ļ           | $\sqcup$ | 4              | $\perp$      | _        | Ц.,             | <u> </u>   | $\sqcup$        | Ш               | L        |          | 65       | Ш                  |          | _        | $\Box$   |          | _        |          |   | _        | L        |          | 115        | _[       | _[       |          |          |                 |          |          | $\bot$   |           |
| <b></b>  | 16       | 1           | $\vdash$ | _              | 4            | _        | Щ               | <u> </u>   | Ш               | Ш               | -        |          | 66       | Ш                  | $\sqcup$ | _        | _        |          | _        |          | $\perp$   | _        | L        | _        | 116        |          | [        | _        |          |                 |          | $\Box$   | $\perp$  |           |
| <u> </u>   | 17       | 1           | $\vdash$ |                | 4            |          | <u> </u>        | $\vdash$   | Ш               | Ш               | -        |          | 67       | Ш                  |          | _        | 4        | _        | _        | $\dashv$ | 4   | 4        | L        |          | 117        | _        | _        | _        |          |                 |          |          | _  |           |
| <u> </u>   | 18       | ٧           | ⊢-       | 4              | -            | _        | $\vdash$        | $\vdash$   | H               | $\vdash \vdash$ | F        |          | 68       | Н                  | $\sqcup$ | -        | 4        | _        | _        | _        | -   | 4        | $\vdash$ |          | 118        | _        | _        | _        | _        | $\Box$          |          |          | $\perp$  | 4         |
| <u> </u>   | 19<br>20 | 1           |          | $\dashv$       | $\dashv$     | $\dashv$ | -               | <del> </del>                                     | <u> </u>        | $\vdash \vdash$ | F        |          | 69       | $\vdash\vdash$     |          | _        | $\dashv$ | 1        | -        | -        | -   | 4        | $\vdash$ | _        | 119        |          |          | _        |          | $\sqcup$        | _        | _        | 4  | _         |
| <u> </u>   | 21       | 7           | $\vdash$ | $\dashv$       | $\dashv$     | -        | $\vdash$        | $\vdash$   |                 | $\vdash \vdash$ | H        |          | 70<br>71 | $\vdash \vdash$    |          | -        | -        |          |          | 4        | 4   | 4        | $\vdash$ | _        | 120        | $\dashv$ | -        | _        |          | $\vdash \vdash$ | _        | $\dashv$ | $\dashv$   | 4         |
|  | 22       | 1           |          | +              |              |          |                 |  | H               |                 | $\perp$  |          | 72       | Н                  |          | -        | $\dashv$ | $\dashv$ |          |          | +   | -        | $\vdash$ | -        | 121<br>122 |          | -        |          |          |                 | -        | $\dashv$ | $\dashv$   | $\dashv$  |
| -  | 23       | <u> </u>    | $\dashv$ | +              | -+           |          |                 | $\vdash$   | H               | $\dashv$        | ŀ        |          | 73       | Н                  | -        | -        | $\dashv$ | $\dashv$ |          | +        | +   | $\dashv$ | -        |          | 123        |          | +        |          |          | H               |          | -        |  |           |
| <del>                                     </del> | 24       | 1           | +        | $\dashv$       | -            |          | -               | $\vdash$   | -               | $\vdash$        | -        |          | 74       | Н                  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +   | ┥        | -        |          | 124        | -        | $\dashv$ | $\dashv$ | _        | -               |          | $\dashv$ |  | ᅱ         |
| _  | 25       | 1           | -        | $\dashv$       | _            | -        |                 |  | -               | $\exists$       | ŀ        |          | 75       | Н                  |          | $\dashv$ | ᅱ        |          | $\dashv$ | $\dashv$ | +   | ┨        | $\vdash$ | -        | 125        | ┪        | $\dashv$ | $\dashv$ |          |                 | ᅱ        | -        | -  | $\dashv$  |
|  | 26       | 1           |          | $\dashv$       | $\dashv$     |          | _               |  |                 |                 | ŀ        |          | 76       | Н                  |          | $\dashv$ | 7        |          |          | 寸        | +   | ٦.       | $\vdash$ | $\dashv$ | 126        | ┪        | $\dashv$ | -        |          | 一               | 寸        | +        | 十  | $\dashv$  |
|  | 27       | 1           |          | 1              | T            |          |                 |  |                 |                 | ı        |          | 77       | Н                  |          | $\dashv$ | 一        | $\neg$   | 7        | 寸        | $\top$  | 1        |          | $\neg$   | 127        | 一        | 十        | $\dashv$ |          | Ħ               | _        | $\dashv$ | $\dashv$   | $\dashv$  |
|  | 28       |             |          |                | $\neg$       | ヿ        |                 |  |                 |                 | ı        |          | 78       |                    |          | 寸        | 寸        | 一        | 寸        | T        |   | ٦.       |          |          | 128        | $\neg$   | _        | $\dashv$ |          |                 | 寸        | $\dashv$ | 7  | ᅱ         |
|  | 29       | V           |          | T              | $\neg$       |          |                 |  |                 |                 |          |          | 79       |                    |          |          | 一        | ヿ        |          | 寸        | $\top$  | 7        |          |          | 129        | $\neg$   | $\neg$   | T        |          | $\neg$          | ヿ        | ヿ        | 寸  | ヿ         |
|  | 30       | 1           |          |                | $\Box$       |          |                 |  |                 |                 |          |          | 80       |                    |          |          |          |          |          |          | ╧   |          |          |          | 130        |          |          | _1       |          |                 |          | 丁        | $\exists$  | $\exists$ |
|  | 31       | 1           | $\Box$   | $\perp$        | I            | $\Box$   |                 |  |                 |                 |          |          | 81       |                    |          |          | $\Box$   |          |          | $\Box$   |   |          |          |          | 131        |          |          |          |          |                 |          |          | $\Box$   |           |
|  | 32       | 1           | $\Box$   | _              |              | _        |                 |  |                 |                 |          |          | 82       |                    | $\Box$   |          | ⅃        |          | Ţ        | $\Box$   | $\perp$   |          |          |          | 132        | $\Box$   | $\Box$   | $\Box$   |          |                 |          |          |  |           |
|  | 33       | $oxed{ig }$ | $\sqcup$ | 4              | 4            | _        |                 | L_   | Ш               | Щ               | L        |          | 83       | Ш                  |          | $\perp$  | _        |          | $\perp$  | _        |   | $\bot$   | L        | [        | 133        | _[       | $\bot$   | $\Box$   |          |                 | $\Box$   |          | [  | $\Box$    |
| <u> </u>   | 34       | 7           | $\sqcup$ | 4              | $\downarrow$ | _        |                 | <u> </u>   | Ш               | Щ               | Ļ        |          | 84       | $\sqcup$           | _        | _        | _        | _        | _        | $\dashv$ | $\perp$   | 4        | Ľ        |          | 134        | _        | _        | _        |          |                 | _        | _        | _  | $\sqcup$  |
| <u> </u>   | 35       | -           |          | +              | +            | 4        | $\vdash \vdash$ | _  | Щ               |                 | F        |          | 85       | $\vdash \vdash$    | _        | 4        | _        | _        | 4        |          | _   | 4        | L        |          | 135        | _        | _        | _        |          |                 |          | _        | 4  | _         |
| <u> </u>   | 36       | 1           | -        | +              | +            | 4        |                 | <u> </u>   | $\vdash \vdash$ | $\square$       | ŀ        |          | 86       | $\left  - \right $ | _        | -        | -        |          |          | -        | +   | 4        | $\vdash$ | _        | 136        | _        | _        | 4        |          | 1               | _        | 4        | 4  | 4         |
| <b> </b>   | 37<br>38 | 1           | +        | +              | $\dashv$     | -        | -               | -  | Н               | $\dashv$        | -        |          | 87<br>88 | $\vdash$           | $\dashv$ |          | $\dashv$ | -        |          | +        | -   | -        | -        |          | 137        |          | $\dashv$ | 4        | _        | -               | -        |          | 4  | 4         |
| <del> </del>                                     | 39       | _           | $\dashv$ | +              | +            | $\dashv$ |                 | $\vdash$   | $\vdash$        | $\dashv$        | $\vdash$ |          | 89       | $\vdash$           | $\dashv$ |          | +        | -        | -+       | +        | +   | $\dashv$ | -        |          | 138        |          | $\dashv$ | 4        |          | $\dashv$        | $\dashv$ | -+       | +  | 4         |
| $\vdash \vdash$                                  | 40       | H           | $\dashv$ | +              | $\dashv$     | $\dashv$ | -               | $\vdash$   | Н               |                 | H        | $\dashv$ | 90       |                    | $\dashv$ | $\dashv$ | $\dashv$ |          |          | $\dashv$ | +   | $\dashv$ | $\vdash$ | -        | 140        |          | $\dashv$ | $\dashv$ | $\dashv$ | -               | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$  |
| <del></del>                                      | 41       | -           | $\dashv$ | +              | $\dashv$     | -        | -               | $\vdash$   | H               | $\dashv$        | -        |          | 91       | $\vdash$           | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ |   | $\dashv$ | -        |          | 141        | -        | $\dashv$ |          |          |                 |          |          | +  | $\dashv$  |
| <del>                                     </del> | 42       |             | $\dashv$ | +              | $\dashv$     | $\dashv$ | -               | $\vdash$   | $\vdash$        | $\dashv$        | $\vdash$ |          | 92       | $\vdash$           | -        | $\dashv$ | -        | $\dashv$ | $\dashv$ | -+       | +   | $\dashv$ | $\vdash$ | -        | 142        | ┪        | +        | $\dashv$ | $\dashv$ | $\dashv$        | -+       | -+       | +  | ᅱ         |
|  | 43       | Н           | $\dashv$ | $\dagger$      | 7            | $\dashv$ |                 |  |                 | 一               | 卜        |          | 93       | $\vdash$           | $\dashv$ | +        | $\dashv$ | 一        | 十        | +        | +   | $\dashv$ | -        | $\dashv$ | 143        | -        | $\dashv$ | 1        |          | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$   | ᅱ         |
|  | 44       |             |          | 十              | $\dashv$     | $\dashv$ | $\neg$          | М  | $\Box$          | $\dashv$        | <u> </u> |          | 94       | Н                  | -        | $\dashv$ | $\dashv$ | $\dashv$ | 十        | 十        | $\top$  | 7        |          |          | 144        |          | $\dashv$ | $\dashv$ | $\neg$   | ᆉ               | ᅱ        | +        | $\dashv$   | ᅱ         |
|  | 45       |             | $\dashv$ | $\top$         | $\dashv$     | $\dashv$ | 一               |  |                 | 一               |          |          | 95       | $\vdash$           | 7        | +        | +        | $\dashv$ | $\dashv$ | $\dashv$ | $\top$  | 1        | $\vdash$ | $\dashv$ | 145        | 一        | $\dashv$ | ┪        | $\dashv$ | $\dashv$        | +        | _        | $\dashv$   | 一         |
|  | 46       |             |          | _              | _            | ヿ        | $\neg$          |  |                 | $\neg$          | İ        |          | 96       | H                  | _        | 7        | 7        | $\dashv$ | $\dashv$ | 十        | $\top$  | 7        |          |          | 146        | $\dashv$ | 十        | 7        | $\dashv$ |                 | $\dashv$ | $\dashv$ | 7  | ヿ         |
|  | 47       |             |          |                |              |          |                 |  |                 |                 |          |          | 97       |                    |          |          |          |          |          | 丁        | _   | 7        |          |          | 147        | 1        | $\dashv$ | 1        | $\dashv$ | 寸               | $\dashv$ | _        | $\dashv$   | ヿ         |
|  | 48       |             |          |                |              |          |                 |  |                 |                 |          |          | 98       |                    | 丁        |          |          |          |          | 丁        |   |          |          |          | 148        |          |          |          | $\Box$   | 一               |          | $\neg$   | 寸  | ヿ         |
|  | 49       |             | $\Box$   |                | $\Box$       |          |                 |  |                 |                 |          |          | 99       |                    |          |          |          |          |          |          |   | ]        |          |          | 149        |          |          | ╗        |          |                 |          | ⋾        |  | ╛         |
|  | 50       |             |          | $\perp \Gamma$ | $\perp$      |          |                 |  |                 |                 |          |          | 100      |                    | $\Box$   |          | П        | П        | Т        | П        |   | ]        |          |          | 150        | T        | Т        | ٦        |          | $\Box$          |          | T        | $\neg$   | П         |